

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564740

Luminaire Tested: **SQ4-PW1-075U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564740
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

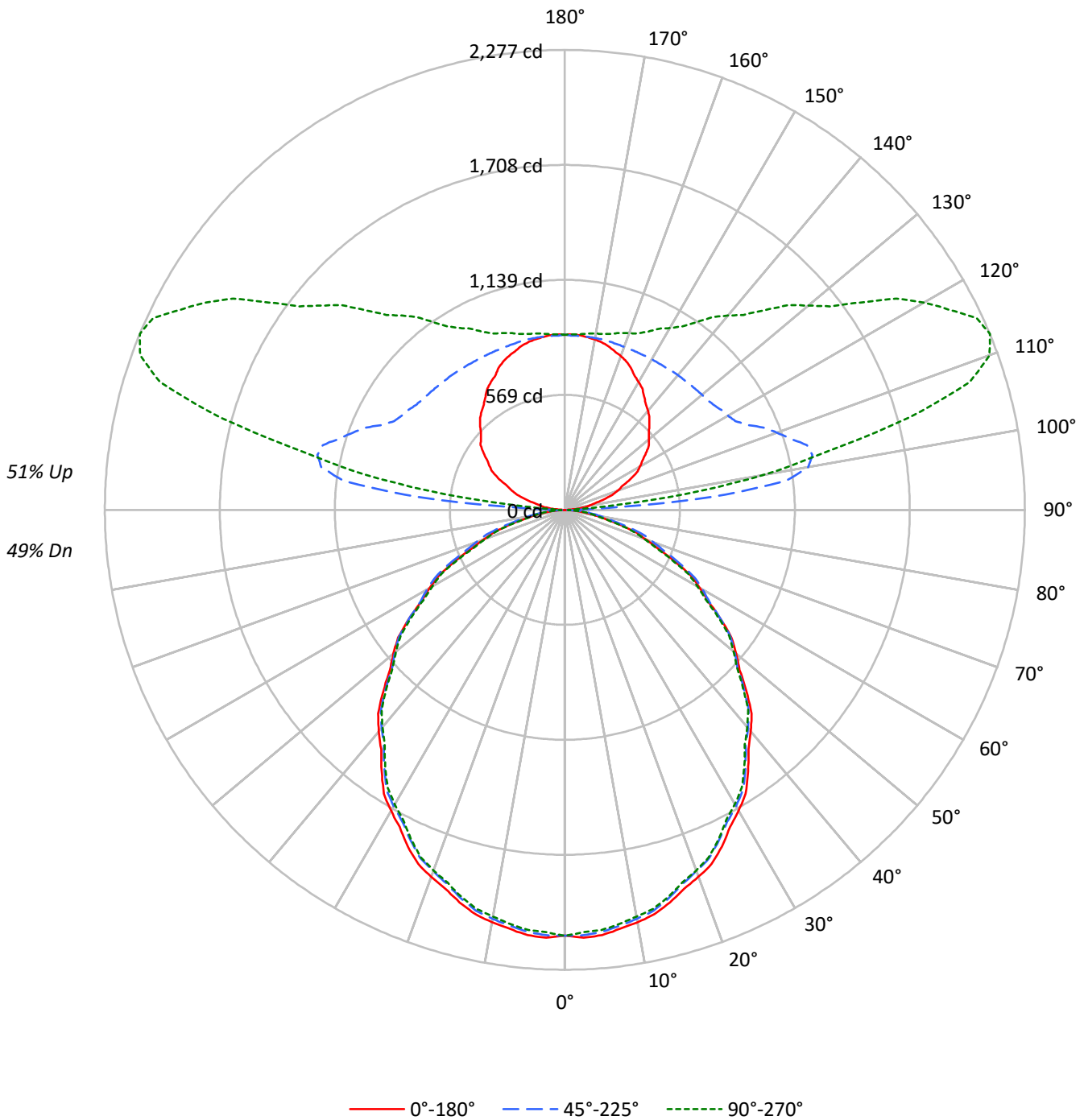
Lumens per Lamp: N/A
Luminaire Lumens: 11018.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9494	9348	9329
25°	9361	9191	9162
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8180	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7112	7250	6993
65°	6509	6833	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3799	4737	3849
85°	2456	3636	3245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.8
10°-20°	560.6	5.1
20°-30°	831.5	7.5
30°-40°	972.9	8.8
40°-50°	968.6	8.8
50°-60°	836.4	7.6
60°-70°	602.1	5.5
70°-80°	315.7	2.9
80°-90°	80.5	0.7
90°-100°	409.2	3.7
100°-110°	1125.7	10.2
110°-120°	1161.9	10.5
120°-130°	931.0	8.4
130°-140°	731.2	6.6
140°-150°	560.3	5.1
150°-160°	402.9	3.7
160°-170°	246.4	2.2
170°-180°	83.0	0.8
0°-30°	1590.6	14.4
0°-40°	2563.5	23.3
0°-60°	4368.5	39.6
0°-90°	5366.8	48.7
90°-120°	2696.8	24.5
90°-150°	4919.3	44.6
90°-180°	5652.0	51.3
0°-180°	11018.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2114	2090	2097	2092	2088	200
15°	2012	1986	1990	1986	1982	567
25°	1839	1808	1806	1795	1800	846
35°	1581	1559	1559	1544	1549	988
45°	1271	1260	1254	1250	1248	980
55°	942	940	942	929	927	840
65°	596	614	626	601	582	591
75°	275	300	316	295	268	295
85°	46	61	69	65	61	61
90°	2	7	13	17	17	6
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.5	2108.5	2108.5	2108.5	2108.5
2.5°	2120.4	2102.9	2108.5	2103.8	2093.6
5°	2114.1	2090.4	2097.3	2091.7	2088.1
7.5°	2092.5	2070.7	2075.8	2069.8	2067.6
10°	2073.2	2051.4	2056.5	2049.0	2045.3
12.5°	2050.9	2027.6	2032.7	2025.2	2023.0
15°	2011.9	1986.5	1989.6	1985.8	1982.2
17.5°	1966.6	1940.8	1941.3	1935.3	1934.6
20°	1933.9	1906.6	1904.1	1896.8	1900.4
22.5°	1898.2	1869.5	1867.0	1856.7	1861.8
25°	1839.1	1808.2	1805.7	1794.7	1800.1
27.5°	1770.8	1740.2	1740.3	1724.8	1730.6
30°	1720.2	1691.2	1694.2	1675.8	1683.1
32.5°	1666.7	1640.6	1642.2	1623.8	1631.1
35°	1580.9	1559.1	1558.6	1543.9	1549.3
37.5°	1493.2	1474.0	1470.9	1462.4	1463.9
40°	1432.3	1415.9	1410.0	1404.4	1404.4
42.5°	1368.4	1353.5	1347.6	1343.5	1342.0
45°	1270.7	1259.8	1253.9	1250.2	1248.4
47.5°	1174.1	1163.9	1158.8	1156.2	1154.4
50°	1107.2	1099.9	1097.9	1092.3	1090.5
52.5°	1040.3	1036.0	1034.0	1026.9	1025.1
55°	941.9	940.0	941.9	928.8	927.0
57.5°	839.3	842.2	848.2	830.7	826.3
60°	770.9	778.2	785.8	765.2	757.9
62.5°	701.1	712.7	723.4	699.7	689.6
65°	596.3	614.5	626.0	601.4	581.5
67.5°	495.3	517.8	531.7	505.2	482.6
70°	425.4	450.8	466.3	439.7	414.3
72.5°	364.5	392.8	405.3	380.3	354.8
75°	274.9	300.4	315.8	294.8	267.5
77.5°	195.1	219.0	231.8	213.5	191.0
80°	143.0	168.5	178.3	163.1	144.9
82.5°	101.4	122.5	129.3	120.1	107.7
85°	46.4	61.0	68.7	64.9	61.3
87.5°	12.3	23.5	30.8	31.6	33.0
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)